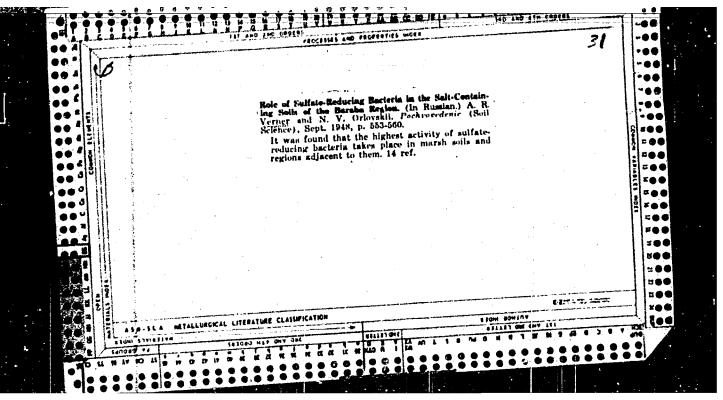


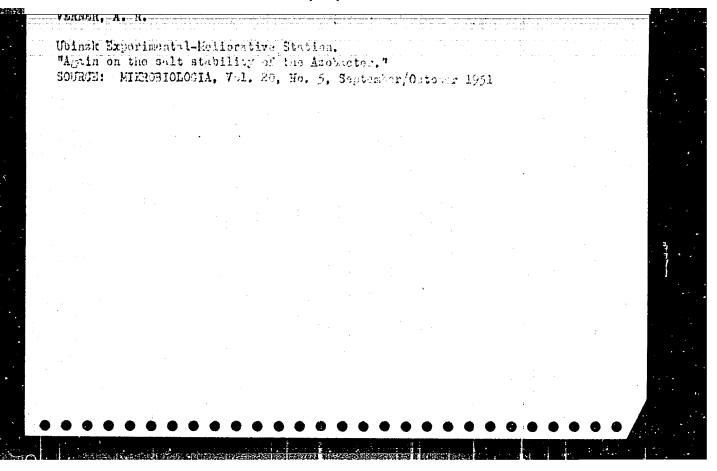
VERIER. A. R.

VERNER, A. R., MALYSHKIN, E. E., and KVIST, N. "Development of Bungi (Fusarium, Verticillium) in the Soil," <u>Comptes Rendus (Doklady) do l'Academie</u> <u>des Sciences de l'URSS</u>, vol. 31, no. 8, 1941, pp. 812-814. 511 P444

SO: SIRA SI_90-53, 15 Dec. 1953



	prevalence of sods in the Gives four tables.	sulfate-red waters of (f marshy reg percentage of carbon are r. This may	"The Role of Sulfate-Reducing Saline Mature of Baraba Soils, F. V. Orlovskiy, 72 pp	Mcroorganisms	
	Baraba selt fo	bacteria I Buraba o Therefol t and com hiefly to ain the wi	* A. B.		
T 64/T	formation.		Verner,	3 67 49	



VERNER, A. R.

Reclamation of Land - Baraba Steppe.

Primary working of soil in reclaiming Baraba marshes. Korm. baza, 3, no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 195/2 Uncl.

VERNER, A.R.; GORIETEVA, E.A.

Oxygen and hydrogen sulfide content of the soil water of Baraba.
Pochvovedenie '52, 1012-18. (MLRA 5:12)
(CA 47 no.13:6591 '53)

USSR / Soil Science. Physical and Chemical Properties of Soil.

SO TO THE PROPERTY OF THE PROP

Abs Jour: Ref Zhur-Biol., No 2, 1959, 6076.

Author : Verner, A. R.; Golyakov, N. M.

Inst : Not given.

Title : The Toxicity of Salts In Reclaimed Bog Soils

of Baraba.

Crig Pub: Pochvovedeniye, 1956, No 8, 101-104.

Abstract: Tentative data on salt concentrations in a soil solution of peat-bog soil is obtained, and the salt composition toxic to cats, barley, wheat and fodder grasses is determined. A concentra-

tion of the soil solution (10 grams per liter and higher) leads to a sharp reduction in oat and wheat sprouts. With a salt concentration

Card 1/2

23

VERNER, A.R. AFANAS YEVA, A.L., kand. biol. nauk; BAYERTUYNV, A.A., kand. sel'skokhozyaystvennykh nauk; BAL'CHUGOV, A.V., kand.sel'skokhozyaystvennykh nauk; BELOZUROVA, H.A., agronom; BELOZOROV, A.T., kand.sel'skokhozysystvennykh nauk; MAKSINENKO, V.P., agronom; EGRNIKOV, V.V., doktor sel'skokhozyaystvennykh nauk; BOGOMYAGKOV, S.T., kand.sel'skckhozyaystvennykh nauk; VOLYNETS, O.S., agronom; BODROV, M.S., kand.sel'akokhozyaystvennykh nauk; BOGOSLAVSKIY, V.P., kand.tekhn.nauk; EHRUPPA, I.F., kand.tekhn.nauk; VERNER, A.R., doktor biol.nauk; VOZBUTSKAYA, A.Ye., kand.sel'skokhozyaystvennykh hauk; VOINOV, P.A., kand.sel'skokhozyaystvennykh nauk; VYSOKOS, G.P., kand.biol.nauk; GAIDIN, M.V., inzhenermekhanik; GERASIMOV, S.A., kand.tekhn.nauk; GORSHENIN, K.P., doktor sel'skokhozyaystvennykh nauk; YELEHEV, A.V., inzhener-mekhanik; GERASKEVICH, S.V., mekhanik [deceased]; ZHARIKOVA, L.D., kand.sel'skokhozysystvennykh nauk; ZHEGALOV, I.S., kand.tekhn.nauk; ZIMINA, Ye.A., agronom; BARANOV, V.V., kand.tekhn.nauk; PAVLOV, V.D.; IVANOV, V.K., kand.sel'skokhozysystvennykh nauk; KAPLAN. S.M., kand.sel'skokhozysystvennykh nauk; KATIN-YARTSEV, L.V., kand.sel'skokhozyaystvennykh nauk; KOPYRIN, V.I., doktor sel'skokhozyaystvennykh nauk; KOCHERGIN, A. Ye., kand.sel'skokhozyaystvennykh nauk; KOZHEVNIKOV, A.R., kand. sel'skokhozyaystvennykh nauk; KUZNETSO7, I.N., kand.sel'skokhozyaystvennykh nauk; LAMBIN, A.Z., doktor biol.nauk; LEONT YEV, S.I., kand.sel'skokhozyaystvennykh nauk; MAYBORODA, M.M., kand.sel'skokhozyaystvennykh nauk; MAKAROVA, G.I., kand.sel'skokhozyaystvennykh nauk; MEL'NIKOV, G.A., inzhener; ZHDANOV, B.A., kand.sel'skokhozyaystvennykh nauk; MIKHAYLENKO, M.A., kand.sel'skokhozyaystvennykh nauk; MAGILEVTSEVA, N.A., kand.sel'skokhozysystvennykh nauk;

(Continued on next card)

AFANAS YEVA, A.L... (continued) Card 2. HIKIFOROV, P.Ye., kand.sel'skokhozyaystvennykh nauk; HENASHEV, H.I., lesovod; PERVUSHINA, A.U., agronom; PLOTHIKOV, M.A., kand, biol.nauk; L.G.; kand.sel'skokhozyaystvennykh nauk; PAVLOV, V.D., kand.tekhn. nauk; PRUTSKOVA, M.G., kand.sel'skokhozyaystvennykh nauk; GURCHENKO, V.S., agronom; POPOVA, G.I., kand. sel'skokhozyaystvennykn nauk; PORTYANKO, A.F., agronom; RUCHKIN, V.N., prof.; RUSHKOVSKIY, T.V. agronom; SAVITSKIY, M.S., kand.sel'akokhozyaystvennykh neuk; BOLDIN, D.T., agronom; NESTEROVA, A.V., agronom; SERAFIMOVICH, L.B., kend. tekhn.nauk; SMIRNOV, I.N., kand.sel'skokhozyaystvennykh nauk; SHREBRYANSKAYA, P.I., kand.tekhn.nauk; TOKHTUYEV, A.V., kand. sel'skokhozyaystvennykh nauk; FAL'KO, O.S., iznh.; FEDYUSHIN, A.V., doktor biol.nauk; SHEVLYAGIN, A.I., kand.sel'skokhozyaystvennykh nauk; YUFEROV, V.A., kand.sel'skokhozysystvennykh nauk; YAKHTEHFEL'D, P.A., kand, sel'skokhozyaystvennykh nauk; SEMEHOVSKIY, A.A., red.; GOR'KOVA, Z.D., tekhn.red.

> [Handbook for Siberian agriculturists] Spravochnaia kaiga agronoma Sibiri. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol.1. 1957. 964 p. (Siberia--Agriculture) (MIRA 11:2)

THE THE PERSON IN THE PERSON WELL BY THE PERSON WEL

VERNER, A.R. (Omsk)

Effect of cultivation on changes in the seasonal freezing of bog soils of the Baraba Steppe [with summary in English].

Pochvovedenie no.1:112-117 Ja '59. (MIRA 12:2)

(Baraba Steppe—Frozen ground)

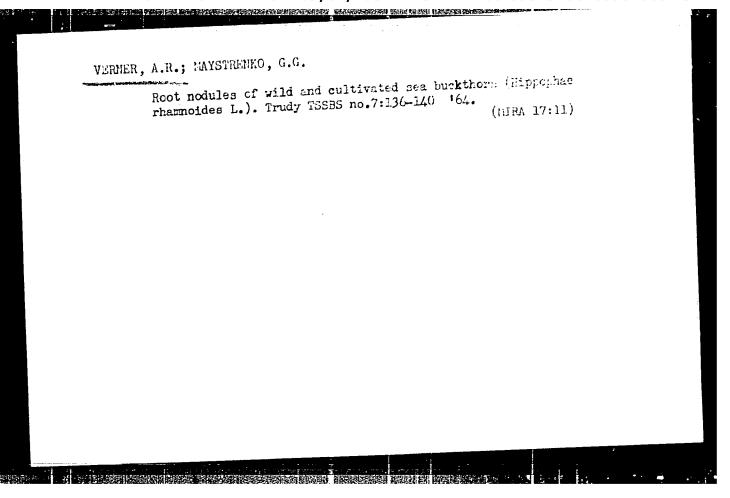
VERNER, A.R.; TRET'YAKOVA, K.Ye.

Conditions of preservation and viability of corn, strawberry, and apple pollen. Trudy TSSBS no.5:89-9? '61. (MIRA 15:3) (Pollen)

VERNER, A.R.; DELOVA, G.V.; GONTAR', E.M.

Phytoncidal activity of certain wild onions of Siberia. Izv. Sib. otd. AN SSSR no.7:83-91 '61. (MIRA 14:8)

1. TSentral'nyy Sibirskiy Botanicheskiy sad Sibirskogo otdeleniya AN SSSR, Novosibirsk. (Phytoncides) (Siberia--Onions)



VAYSBURD, S.Ye.; VERNER, B.F.; KHEYFETS, V.L.

Activity of iron in Fe - Ni - S melts. Izv.vys.ucheb.zav.; tsvet.met. 5 no.1:59-67 162. (MIRA 15:2)

1. Proyektnyy i nauchno-issledovatel'skiy institut "Gipronikel!".

(Activity coefficients) (Iron sulfides) (Nickel sulfides)

137-58-6-11981

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 113 (USSR)

AUTHORS Baymakov, A.Yu., Verner, B.F., Kostelov, V.V.

TITLE An Application of the Furning Process (Metallotermiya v prot-

sesse f'yumingovaniya;

PERIODICAL Byul. tsvetn. metallurgii, 1957, Nr 9, pp 20-21

ABSTRACT

Large quantities of ferrosilicon, a by-product of electrosmelting of Sn concentrates which contains 18-19% of Si, ~30% of Fe, and 3-5% of Sn, have accumulated in various tin-producing plants. In 1956 the Gipromnikel' Institute conducted shop experiments on processing of ferrosilicon by means of fuming of Sn slags containing 1.3-1.5% Sn, 0.5-0.8% Pb, and 2.5-3.5% Zn. After blowing, 0.07-0.08% of Sn remain in the slag, the extraction of Sn attaining 95%. Addition of ferrosilicon is advisable in amounts equivalent to 15% of slag by weight. Experiments dealing with blowing of the ferrosilicon only were also

performed.

A.P.

Card 1/1

1. Slags--Processing 2. Iron-silicon alloys--Processing

3. Tin-Separation

BAYMAKOV, A.Yu.; VERNER, B.F.: LARIKOVA, M.G.; DMITRIYEVA, N.K.

Refining tin from admixtures by the method of sonal smelting.
TSvet. met. 29 no.8:51-58 Ag '56. (MLRA 9:10)

(Tin--Metallurgy)

BAZILEVSKIY, V.M.; VERNER, B.F.; KOSTELOV, V.V.

Reprocessing on taling zinc, lead, tim and copper. ZSvet.

met. 29 no.1:82-92 Ja '56.

(Slag) (Honferrous metals--Metallurgy)

BAZILEVSKII, V.M.; VERNER, B.F.; KOSTELOV, V.V.

Reprocessing of slags containing sinc, lead, tin and copper. TSvet.

met. 29 no.1:82-92 Ja '56. (MIRA 9:6)

(Slag) (Monforrous metals--Metallurgy)

KOSTELOV, V.V.; VERNER, B.F.; IVANCHENKO, L.P.

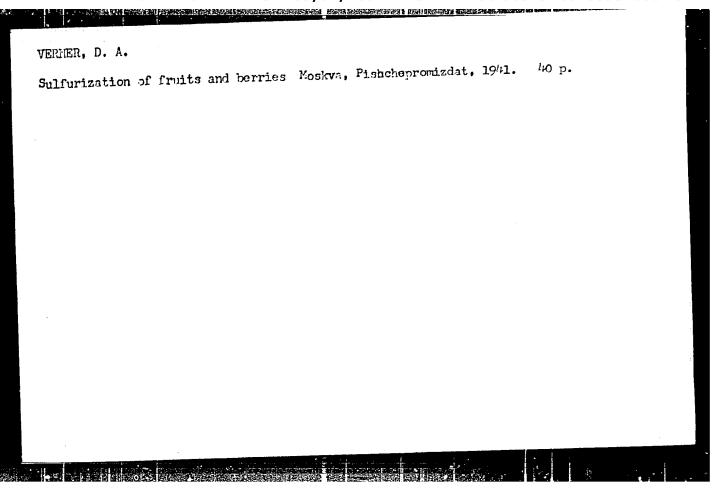
Use of the fuming process for the treatment of complex cobaltcontaining raw materials. TSvet. met. 33 no.6:37-42 Je '60. (MIRA 14:4) (Nonferrous metals—Metallurgy) (Cobalt)

BILAY, V.I.; VERNER, D.A.; ZAKORDONETS, A.I.; LUSHCHEVSKAYA, G.M.

THE REAL PROPERTY AND THE PROPERTY OF THE PROP

A stimulant of plant growth isolated from Fusarium miliforme Sheld. Izv. AN SSSR. Ser. biol. 27 no.1:42-47 Ja-F '62. (MIRA 15:3)

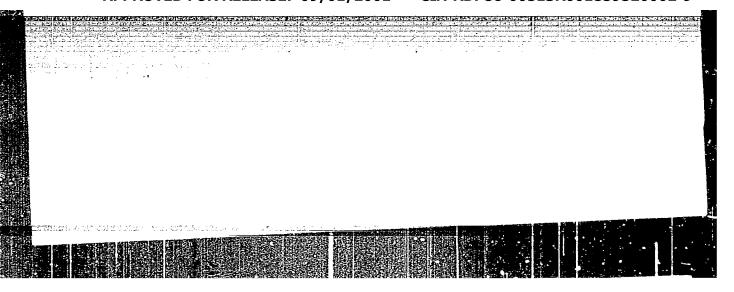
1. Akademiya nauk Ukrainskoy SSR, Kiyev.
(FUSARIUM)
(GROWTH FROMOTING SUBSTANCES)

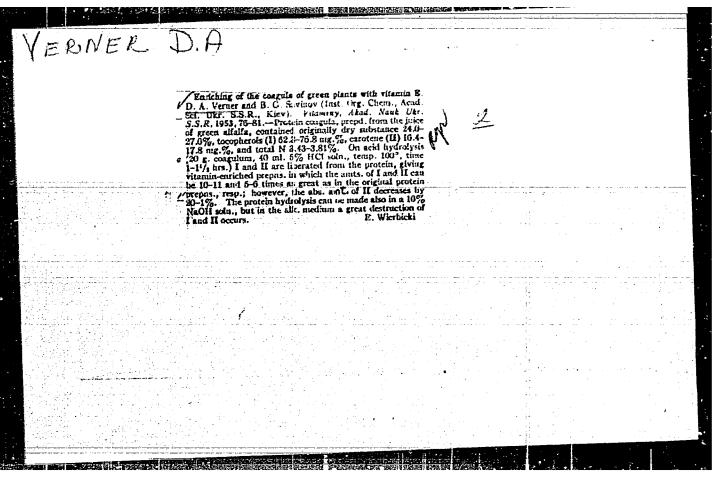


VERNER, D. A.

Verner, D. A. "The use of pectinase preparations in separating out chromoplast pigments", Ukr. khim. zhurnal, Vol. XIV, Issue 2, 1949, p. 101-106, - Bibliog: 9 items.

S0: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No 21, 1949).





VERNER, D.A. USSR/Organic Chemistry - Synthetic Organic Chemistry, E-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 842 Author: Savinov, B. G., Verner, D. A., and Mikaylovnina, A. A.

Institution: None

Title: On the Monomethylation of Xylene

Original Periodical: Ukr. khim. zh., 1956, Vol 22, No 1, 84-87

Abstract:

The conditions for the preparation of pseudocumene (I) from xylene (II) have been investigated. The methylation of II. with CH3Cl for 12-25 hours in the presence of anhydrous Al2Cl3 at 800 gives I in the presence of anhydrous The generate methylation wields of 30-384 (hased on IT charged). yields of 30-38% (based on II charged). The separate methylation of the decrease of the methylation of the isomers of II produces no advantage compared to the methylation of the mixture; I and mesitylene are formed in both cases. Mesitylene and II are obtained by the hydrolysis with 20% HCl (30 minutes) followed by steam-distillation for 90 minutes at 80-900, of the sulfonic acids formed when the fraction of alkylated products boiling tonic actual formed when the fraction of alkylated products bolling at 150-1800 is sulfonated with an equal volume of concentrated H₂SO_H

Card 2

Card 1/2

PDP86-00513R001859520002-

USSR/Human and Animal Physiology - Blood Circulation.

T-5

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 31731

Author

: Verner, D.D.

Inst

VOLHELANDA

Title

: Pneumatophotoelectric Plethysmograph.

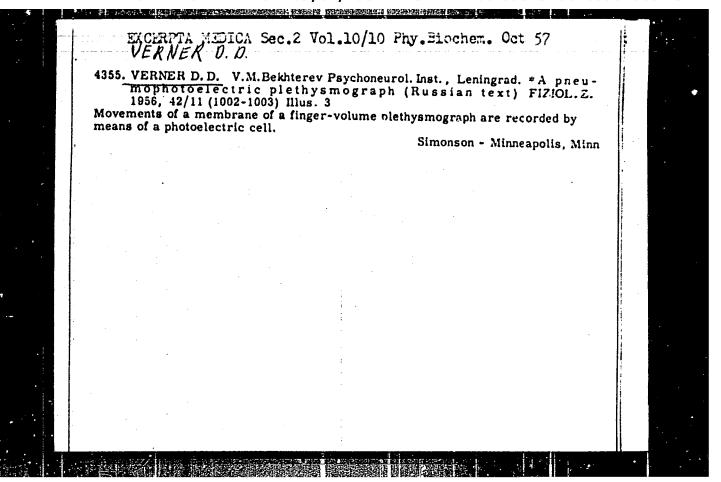
Orig Pub

: Fiziol. zh. SSSR, 1956, 42, No 11, 1002-1003.

Abstract

: Sealed with plastilin or plaster a test tube is slipped on the digits of the hand of foot. The end of the test tube extends out and, by means of a rubber tube, connects with a capsule of the transmitter that has a rubber menbrane. Changes of the size of the digit in the test tube are transfered to themembrane and, from it, to an operation indicator that regulates the quantity of light falling on photoelement. Changes of the photocurrent are amplified and recorded on an oscillograph in ink.

Card 1/1



VERNER. D.D.

Pneumophotoelectric plethysnograph [with susmary in English], Fisiol.shur. 42 no.11:1002-1003 N *56. (WLBA 10:1)

l. Gosudarstvennyy psikhonevrologicheskiy institut im. V.M. Bekhtereva, Leningrad.

(PLETHYSMOGRAPHY, apparatus and instruments, pneumophotoclectric plathysmograph (Rus))

A THE STATE OF THE

YEROKHINA, V.N.; VERNER, D.D.

Potentiation of hypnic inhibition by means of a small-sized simplified apparatus for electronarcosis. Trudy Gos. nauch.-issl, psikhonevr. inst. no.24:167-172 '61. (MIRA 15:5)

1. 2-oy psikhiatricheskoye otdeleniye i eksperimental'naya gruppa po razrabotke meditsinskogo oborudovaniya Gosudarstvennogo nauchnoissledovatel'skogo psikhonevrologicheskogo instituta imeni Bekhtereva. (ELECTRIC ANESTHESIA)

VERNER, E. (Eng.)

Wrote about the repair of automobile and tractor engine bearing with centrifugally poured babbit and the relation between the thickness and microstructure, and the r.p.m. at which the babbit is poured.

Soviet Source: P: Avtomobil, No. 3, Moskva, March 1950

Abstracted in USAF "Treasure Island", on file in Library of Congress, Air Information Division, Report No. 98609



VERNER, E.,
G. KLEIN, Masloboino Zhirovoe Delo 11, 542-4 (1935)

VERNER, E.D., inzh.

Cooling systems for the engine, pressure charged air, and electric machines of modernized TE1 and TE2 diesel locomotives, Sbor, nauch, st, KHIIT no.63:27-41 162.

(MIRA 16:11)

SHRIMOV, Grigorii Manas'evich and Willer, Evenii Georgievich Torficniki 530R; s prilosh, kert rascoloxheniis tort' nikov i taket'l'nykh f-brik ... Moskve, Tvetorf, 1926. xx, 320 p.

DIC: Uncless.

S0: IC, Soviet Geography, art I, 1951, Uncl.

GUL CHAK, G.S.: VERNER B.Q.: SYRKIN, G.Ye.; BUKHARIN, V.V., spetsred.; MURASHEVA, O.I., red.; KISINA, Ye.I., tekhn.red.

[Automatic control devices in the oils and fats industry] Avtomaticheskie reguliruiushchie pribery v maslozhirovoi promyshlennosti. Moskva, Pishchepromizdat. Pt.2. 1957. 31 p. (MIRA 12:1)
(Automatic control) (Oil industries--Equipment and supplies)

YERMAKOV, B.F., inzh.; RABOTA, A.P., inzh.; VERNER, E.O., inzh.

From the work experience of Vinnitsa Oil and Pat Combine. Masl.zhir.prom. 28 no.12:27-28 D *62. (MINA 16:1)

1. Vinnitskiy maslozhirovoy kombinat.
(Hydrogenation oils and fats) (Vinnitsa)

THE REPORT OF THE PROPERTY OF

RUDAKOV, A.A.; VERNER, E.O.; IVANOV, M.Ye.; FURNANOV, Z.Z.

Automatic regulation of temperature in thermostating canned foods.

Kons.1.ov.prom. 15 no.11:35-38 N '60. (MIRA 13:10)

1. Vinnitskiy sovnarkhos. (Canning industry—Equipment and supplies) (Thermostat)

VERNER, E.O., inzh.

Remote indicator of t e amount of hydrogen in a gas tellier and automatic switching off of hydrogen compressors. Hasl. -rbir. proc. 27 no.7:42-43 Jl '61. (HIW 14:7)

1. Vinnitshiy rasloshirovoy kombinat.
(Gasses, Compressed)
(Automatic control)

VERNER, G. [Werner, G.], insh.

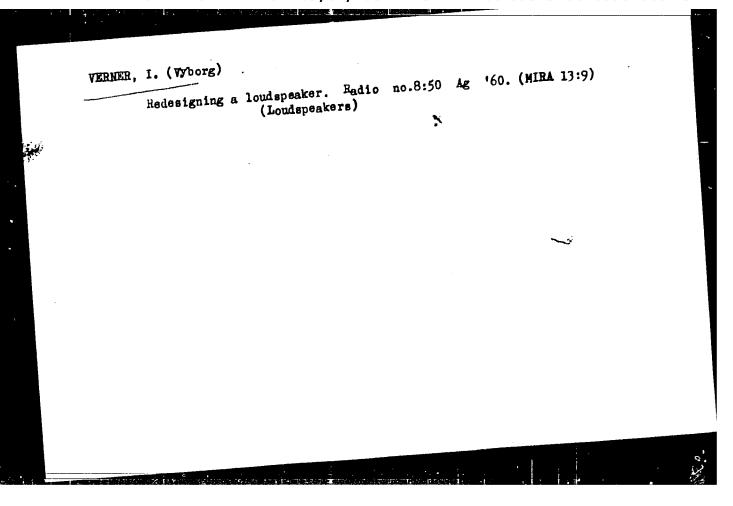
The ADE automatic two-side trimmer. Der.prom. 11 no.12:30 D '62. (MIRA 16:1)

1. Institut stankostroyeniya, Karl-Marks-shtadt, Germanskaya Demokratioheskaya Respublika. (Germany, East-Woodworking machinery)

VERNUE, G., inshere.

Modernization of circular saws. Der.prom. 6 no.1:30-31 Ja '57.
(MLRA 10:2)

1. Harodnoye predpriyative Mikhoma v gorode Leyptsige (Germanskaya Demokraticheskaya Raspublika).
(Germany, East—Woodworking machinexy)



verner, J.

"Air in the Ostrava area."

p. 241 (Nova Technika, No. 6, 1958, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 9, September 1958.

sov/113-59-6-18/21

12(2)

AUTHOR:

Pryadilov, V.I., Verner, K.A.

TITLE:

Exhaust Valves of Modern Engines

Avtomobil'naya promyshlennost', 1959, Nr 6, pp 43-

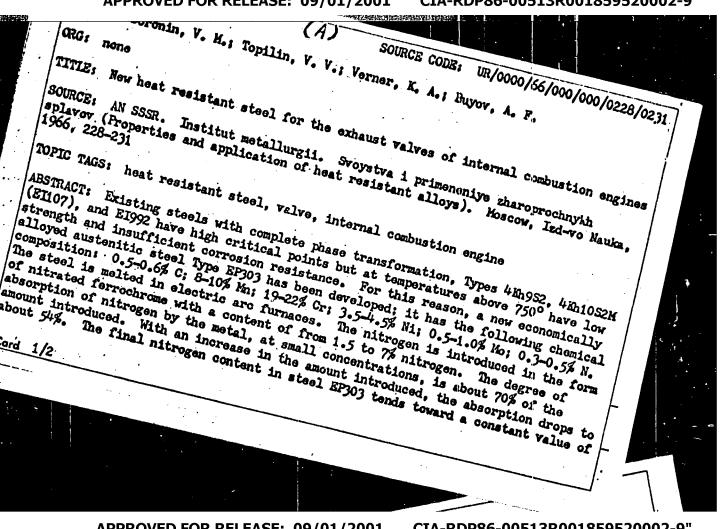
PERIODICAL:

46 (USSR)

ABSTRACT:

This article reviews modern exhaust valves, their design, the materials used in their construction, the stresses to which they are exposed and means to combat them. There are 5 diagrams, 4 graphs, 5 tables and 8 English-language references.

Card 1/1



CIA-RDP86-00513R001859520002-9" **APPROVED FOR RELEASE: 09/01/2001**

EWT(d)/EWT(1)/EWT(m)/EWP(c)/EWP(v)/T/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(1)SOURCE CODE: UR/0113/66/000/003/0031/0033 L 40826-66 ACC NR. AP6020976 AUTHOR: Verner, K. A.; Doronin, V. M.; Buynov, A. F.; Syrkin, P. E.; Letchford, N. I. ORG: NAMI; "Elektrodetal'" Plant (Zavod "Elektrodetal'"); Gor'kiy Automobile Plant (Gor'kovskiy avtozavod) with nitrogen for internal combustion exhaust TITLE: Chrome-manganese-nickel steel 75 13 valves An . B SOURCE: Avtomobil'naya promyshlennost', no. 3, 1966, 31-33 TOPIC TAGS: internal combustion engine, valve, high temperature steel, chromium, manganese, nickel, hardness, durability, engine reliability, CARC mium STEEL,
manganese, nickel, hardness, durability, engine reliability, CARC mium STEEL
MANGANESE STEEL, NICKEL STEEL / EP303 HICH TEMPERATURE STEEL
ABSTRACT: The authors discuss and criticize various grades of steel used for valve production. A comparison of existing grades of steel for valve production shows that EP303 steel is best suited for this purpose. It retains its hardness at temperatures of 700-900°C. This shows that it can withstand temperatures from 50 to 100 degrees higher than EI69 and EP48 steels. EP303 steel was tested for thermal stability to determine its resistance to scale formation in air and corrosion resistance in lead oxide at 900°C. EP303 steel compares favorably with the other grades of steel tested. The test results were used as a basis for trying out this steel in the mass production of valves. The manufacturing process is discussed. Valves made from EP303 and EP48 621.431.73:62-332.002.2 UDC: Card 1/2

ACC NR. AP6020976 steels were then compared on <u>test</u> stands and under operating conditions. These tests were carried out at the Gor'kiy Automobile Plant. The valves were tested in GAZ-51, GAZ-51a and GAZ-21d engines and others. High octane gasoline was used throughout the test since it develops high temperature conditions. Tests showed that valves made from EP303 steel retain their clearances throughout the test period in contrast to those made from EP48 steel. The data acquired during stand testing are in agreement with operational data. Valves made from EP303 steel have a hardness of HRC 38. These valves operate very well in GAZ engines and improve engine reliability. The service life of the new valves is triple that of valves with a built up VKhN-1 facing, and more than four times that of valves made from EP48 steel. The production of EP303

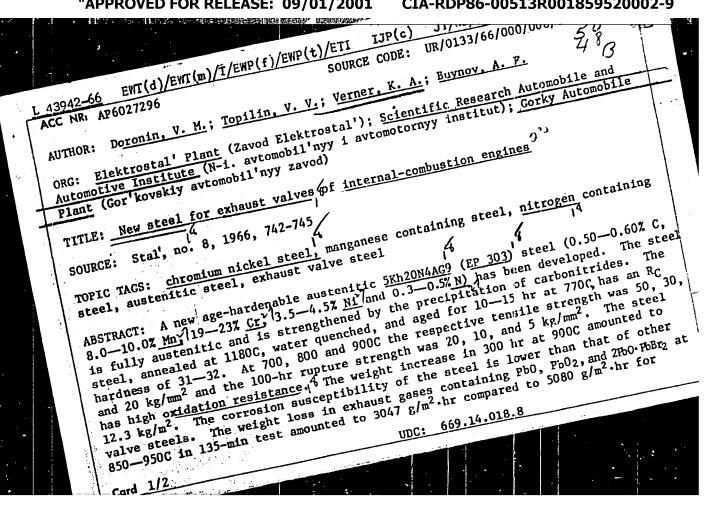
steel has been adopted by the Gor'kiy Automobile Plant for making the exhaust valves

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 001

of GAZ and ZMZ engines. Orig. art. has: 4 figures, 1 table.

L 40826-56

CIA-RDP86-00513R001859520002-9 "APPROVED FOR RELEASE: 09/01/2001



EI69 steel. In 215 hr compared valves had 1002 and 2 tables.	longer serv	ice life	e than EP48	valves	orig.	art. h	lons, t ns: 9	he EP303 figures	
SUB CODE: 1911/	SUBM DATE:	none/	ORIG REF:	004/	OTH REF:	0047	ATD DD	Pcc. (7/1	
	ġ.	•		·		0047	AID PK	tss:3°6/	
precipitation hard	ening			• .					
	18								
				•				;	
	4 . 5 								
								•	
			•						
			٠						L
						s Mari		j	
					Service Control				
								Į.	i

ACC NR: AR6030391 SOURCE CODE: UR/0273/66/000/006/0028/0028
AUTHOR: Verner, K. A.; Buynov, A. F.; Doronin, V. M.
TITLE: Austenite steel with low nickel concentration for the exhaust valves in in-
SOURCE: Ref. zh. Dvigateli vnutrennego sgoraniya, Abs. 6.39.188
REF SOURCE: Tr. Tsentr. ni. avtomob. i avtomotorn. in-ta, vyp. 81, 1966, 66-68
TOPIC TAGS: engine exhaust system, high temperature valve, internal combustion engine, low alloy steel, austenite steel
ABSTRACT: EP303 low-alloy chrome-manganese-nickel austenite steel has been developed for the exhaust valves in internal combustion engines operating at temperatures up to 900°C. Heat treatment conditions have been worked out for producing high mechanical properties in EP303 steel at high temperatures. The hardness (HRC up to 38) resulting from heat treatment of the valves obviates the necessity for using hard metal surfacing or special caps on the ends of the valve rods. EP303 steel has satisfactory technological properties during steel production and manufacturing of the valves. Exhaust valves made from EP303 steel ensure reliable engine performance, a stable heat gap, lower deformation of the valve plates and an increase in their service life by a factor of 2 compared with EP48 steel valves. The "Elektrostal'" Plant has worked all "bugs" out of the production of EP303 steel throughout the entire metallurgical cycle. EP303 steel has been introduced by the Gorky Automobile Plant in production of exhaust valves for the GAZ and ZMZ engines. [Translation of abstract]
SUB CODE: 21, 11, 13 Cord 1/1 jb UDC: 669.14:621.431.73-332

ACC NR. AP7006946 SOURCE CODE: UR/0129/67/000/001/0046/0048 AUTHOR: Verner, K. A.; Zelenova, V. D.; Doronin, V. M.; Buynov, A. F. ORG: NAMI; GAZ; "Elektrostal" Factory (Zavod "Elektrostal") The effect of phosphorus on the structure and properties of TITLE: 5Kh20NuAG9 steel SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 1, 1967 TOPIC TAGS: austenitic steel, precipitation hardenable steel, phosphore conterining start, chromium, containing start, manganese, containing about, molybdenum, containing statel, nickel, containing state, nitrogen, stulpreprint Most composition, valve, exhaust valve, there mechanical property/ ABSTRACT: The effect of phosphorus on the mechanical properties, structure, phase composition, and dispersion strengthening of austenitic 5Kh20N4AG9 steel (0.51-0.60%, 0.36-0.86%Si, 8.61-8.95%lin, 20.2-21.2%Cr, 3.95-5%Ni, 0.68-0.73%no, 0.24-0.36%N, 0.016-0.42%P), used for engine exhaust valves, has been investigated. Ingots were forged at 1160-950°C Card 1/2 669.14.018.8:620.17:620.18 UDC:

AND THE PROPERTY OF THE PROPER

ACC NR. AP7006946

rolled to bars 20-25mm in diameter, and made into valves which were austenitized at 1150-1200°C, quenched, and aged at 700-800°C. Alloyat 5Kh20N4AG9 steel with phosphorus increased the mechanical properties at room and high temperatures. For instance, at 20 and 800°C, steel with 0.16%P and 0.72%Mo (Mo added up to 1% retards grain growth which kg/mm², an elongation of 6 and 10%, a reduction of area of 133, and 44 notch toughness of 1.38 and 3.63 kgm/cm², and a Brinell hardness of 393 and 124 compared to 103 and 34 kg/mm², 8 and 25%, 10 and 28%, an undetermined notch toughness, and an HB hardness of 302 and 109, at 20 and containing 0.2%P and up to 1% Mo had the best combination of mechanical quenching, the phosphorus, disolved in austenite, increases the lattice parameter, brings about strain and stress in the lattice, and increases (Cr2N), but P itself remains in the solid solution. Orig. art. has: 1

SUB CODE: 11/ SUBM DATE: none/

ORIG REFI GOT

[WW]

Card 2/2

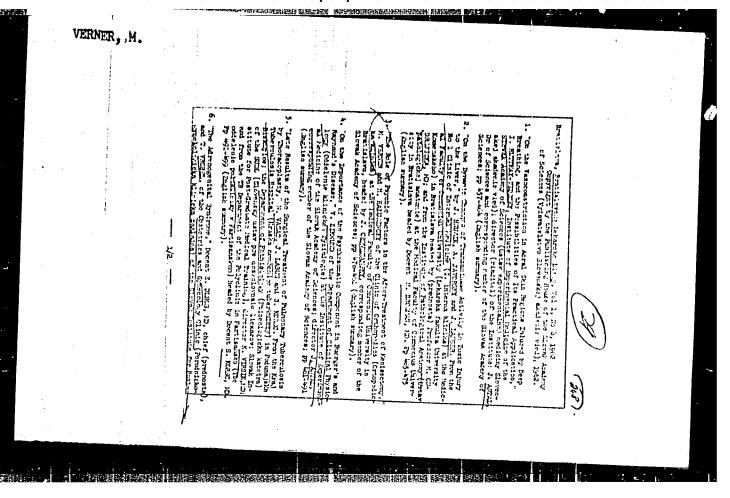
VERIER, M. Psychigal experiences of injured patients. Bratisl. lek. listy 34 no.9;1065-1075 Sept 54. 1. Z Ortopedickej kliniky LFSU v Bratislave, prednosta prof. dr J.Cervenansky. (PATIBETS, psychol. state of hospitalized patients)

VERNER, M.: HALUZICKY, M.

Role of mental factors in supplementary cure following meniscectomy. Bratisl. lek. listy 42 no.8:476-481 *62.

1. Z Ortopedickej kliniky Lek. fak. Univ. Komenskeho v Bratislave, prednosta clen koresp. SAV J. Cervenansky.

(KNEE surg) (POSTOPERATIVE CARE)



VERNER, M.

Czechoslovakia

Institute of Poliomyelitis -- Bratislava (Liečební ústav poliomyelitída -- Bratislava); Director: V. LÁNIK, MUDr.

Bratislava, Bratislavské lekárske listy, No 6, 1962, pp 348-351

"Psychic Repercussions of Post-Polionyelitis States in School Age Children. Preliminary Report."

VERNER, M.; SPISSAK, L.

Disorders of sociability in physically defective pubescent youths during institutional care. Bratisl. lek. listy 45 no.2:97-102 31 Ja *65

NAME OF THE PERSONAL PROPERTY OF THE PERSONAL

l. I. detska klinika lek. fak. Univerzity Komenskeho v Bratislave (veduca prof. MUDr. I.Jakubcova) a Detsky ustav pre telesne chybnych v Bratislave (veduci primar MUDr. L. Spissak).

VERNER, M.; BIRCAK, J.; STEINER, J.

Some psychological problems of adolescents. Cesk. pediat. 17 no.7/8: 638-641 Ag '62.

1. I. detska klinika Lekarskej fakulty Univerzity Komenskeho v Bratislave, prednosta doc. dr. I. Jakubcova.

(ADOLESCENCE) (CHILD PSYCHOLCGY)

ARIM, 1.Ye.; RUCINA, N.A.; VIRNER, M.A.; LOTKOVA, L.I.

Production of highly refined woodpulp for processing to asstylcellulose. Trudy LTITISP no.12:167-172 164.

(MIRA 16:8)

VERNER, M.A., inzh.

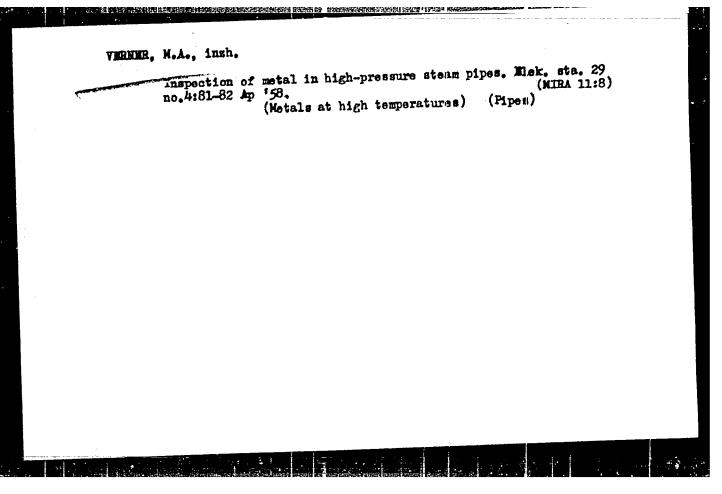
Controlling the condition of steampipe metal at electric power stations. Bezop.truda v pron. 5 no.10:24-26 0 '61.

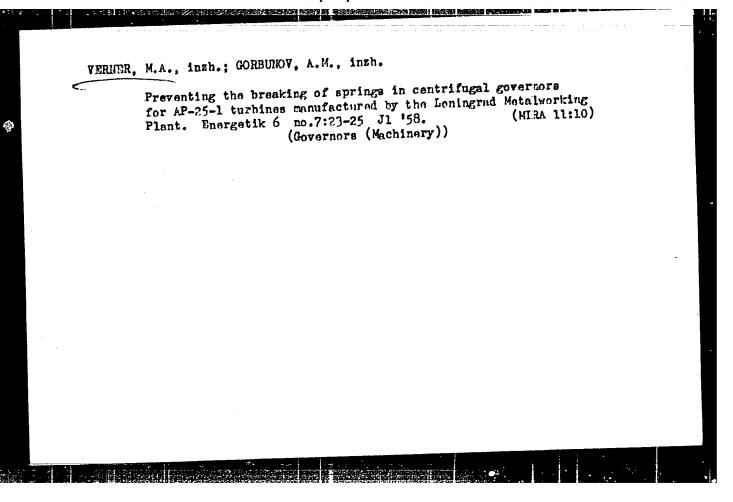
(Steampire--Testing)

VERHER, M.A., inzh.; AKSELTROD, M.A., inzh.

Study of the work caps ity of the output block of a convectional steam superheater. To ploenergetikh 12 no.2:52-55 F 165.

1. Ural'skoye otdeleniye Gosudarstvennogo tresta po organizatsii i ratsionalizatsii rayonnykh elektrostantsiy i setey.





CIA-RDP86-00513R001859520002-9 "APPROVED FOR RELEASE: 09/01/2001

VERNER, MA.

91-58-7-10/27

AUTHORS:

Verner, M.A., and Gorbunov, A.M., Engineers

TITLE:

Exchange of Experience (Obmen opytom). The Elimination of Spring Breaks of the Centrifugal Regulator of the "AP-25-1 LMZ" Type Turbine (Ustraneniye polomok pruzhin tsentrobezhnogo regulyatora turbiny AP-25-1 LMZ).

PERIODICAL:

Energetik, 1958, Nr 7, pp 23-25 (USSR).

ABSTRACT:

The article describes the causes of spring breakage of the above regulator and gives the results of laboratory research. The top of the fatigue destruction zone seemed to be the origin of cracks. Pulsations of 2 to 3 mm amplitude were stated in the levers of the regulator, from where they were transmitted to the springs. Some measures taken to eliminate these pulsations, lowering them to 1 mm. Later it was stated, that the vibrations of the regulator were influenced by the operation of the worm gear between the turbine axle and the regulator shaft. The side-gap in the worm gear was about 1.3 mm. It did not influence the operation of the worm gear, but it caused periodical pulsations in the regulator shaft and in the levers and springs. After having carefully adjusted the new worm gear and centered the shaft of the regulator with that of the oil pump, the pulsations completely disappeared and spring breakage was stop-

Card 1/2

91-58-7-10/27

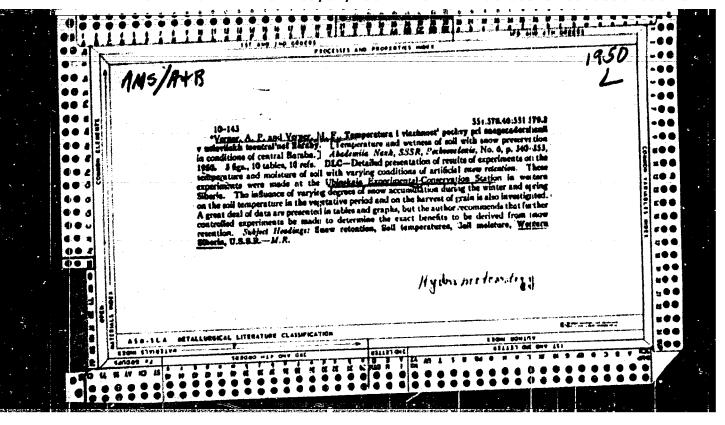
Exchange of Experience. The Elimination of Spring Brees of the Centrifugal Regulator of the "AP-25-1 LMZ" Type Turbine.

ped. This resulted from research. The permissible value of the side-gap in the worm gear must not exceed 0.5 to 0.6 mm. The recommendations of the "LMZ" for replacing the 4-mesh worm gear by a 3-mesh one to increase its strength are not justified. According to the experience of the author, a 4-mesh worm gear is sufficiently reliable if carefully adjusted. There is 1 diagram and 1 photo.

1. Springs--Failure 2. Turbine regulators--Maintenance

Card 2/2

VERNER, M.A. Increasing the efficiency of high-frequency-current units. Stan.i instr. vol. (MIRA 6:10) (Electric transformers)



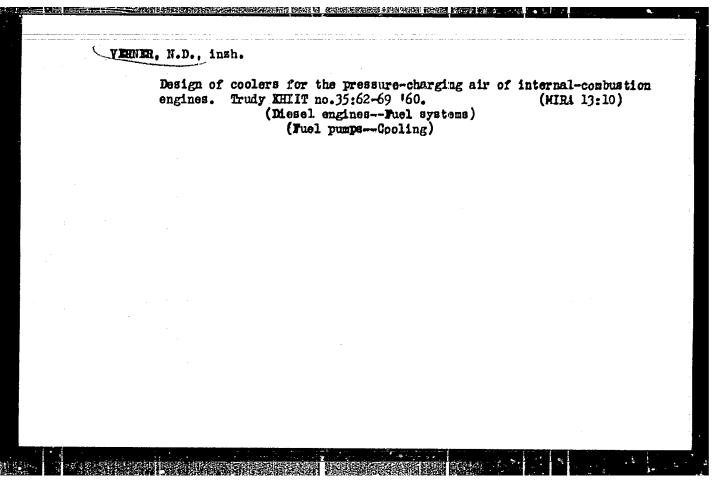
KURITS, A., kand.tekhn.nauk; VERNER, N., insh.; SIMSON, A., kand. tekhn.nauk

Modernization of diesel locomotive engines. Zhel.dor.transp. 36 no.3:51-53 Mr '55. (MIRA 12:5) (Diesel locomotives)

VERNER, M.; SIMSON, A.

3 D 50 marine engines of higher capacity. Mor. i rech.flot 14 no.10:23-25 0 '54.

(Marine engines)



(Clutches(Machinery))		High-sensitivit	y protection fr 62 ₄	iction clutch. Mashin (MIRA 16:	clutch. Mashinostrosnia (MIRA 16:1)		
			(Clutches (Mach	inery))			
	1.5						
			,				
			•				

VERNER, V.D.

Internal friction produced by the diffusion of nitrogen atoms, 880-889 in Teld of elastic stresses in Tesoled solutions of iron alloys. Fiz.met.i metalloved. 14 no.61880-889 D 62. (MIRA 1612)

AND THE PARTY OF T

1. Moskovskiy institut stali i splavov.
(Iron alloys—Thermal properties)
(Internal friction)

CHIRKIN, A. P., doktor telhn. nauk, prof.; GAVRILENKO, M. K., kand. tekhn. nauk; VERNEH, N. D., inzh.

Investigating the characteristics of fuel feed by the fuel pump of the 2D100 engine with modified cutting-off edges of the pump piston. Trudy KHIIT no.52:5-15 '61. (MIRA 15:10)

(Diesel engines—Fuel systems) (Pistons—Testing)

VERNER, N.D.

Improving the performance of D50 and D100 diesel engines under idling and small load conditions. Trudy NHIIT no.46:133-140 '61. (MIRA 15:12)

1. Rukovoditel' raschetno-konstruktorskoy gruppy laboratorii teplovoznykh dvigateley Khar'kovskogo instituta inzhenerov zheleznodoromhnogo transporta.

(Diesel locomotives--Performance)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859520002-9

S/262/62/000/014/012/016 1007/1207

AUTHORS:

Vodolazhchenko, V. V., Simson, A. E. and Verner, N. D.

TITLE:

Investigations on the gas-turbine supercharging system in four-strokes engines

PERIODICAL:

Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustanovki, no. 14, 1962, 54, abstract

42.14.323 (Tr. Khar'kovsk. in-ta inzh. zg.-d. transp., no. 43, 1961, 29-38)

TEXT: Results are reported of investigations on exhaust systems with a single, common exhaust-manifold and with supercharging by means of the kinetic energy of exhaust gases. The system described was used in 2- and 4- stroke engines and ensures increase in turbine power by 20% as compared with reaction turbines; it may be applied to all types of internal combustion engines and requires the installation of a single turbine only regardless the cylinder number and dimension of the engines involved.

[Abstracter's note: Complete translation.]

Card 1/1

ZASLAVSKIY, G.N., inzh.; VERNER, N.D., inzh.

Trioreasing the economic efficiency of the D5C engines. (MIRA 15:4)

no.2184-85 Mr-Ap '62.

1. Khar'kovskiy institut inzhenerov zheleznodorozhnogo transporta.

(Diesel engines)

VERNER, N.D., inzh.; TARASOV, A.M., kand.tekhn.nauk

Investigating the causes of the destruction of pins fastening
the D50 engine to the foundation frame. Trudy KHIIT no.50:5-13
(MIRA 15:12)

CHIRKIN, A.P., doktor tekhn.nauk, prof.; VERNER, N.D., inzh.; GAVRILENKO, M.K., inzh.; DROBYAZKO, S.I., kand.tekhn.nauk, dotsent

By-pass system for the pressure-charging air of 2D100 locomotive diesel engines. Trudy KHIIT no.35:138-143 160. (MIRA 13:10) (Diesel engines)

VERNER, O.

TECHNOLOGY

Periodical: SDELOVACI TECHNIKA. Vol. 6, no. 11, Nov. 1958.

VERNER, O.; PRAGR, J. A precise electric-bridge torque mater. p. 129.

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 3

March 1959 Unclass.

PETROVSKIT, V.V., kand.tekhn.nauk; VASANOVA, L.K., insh.; VERMER,

P.L., insh.

Use of jalousie ash traps in the fuel bed burning of high ash content coal. Elek.sta. 31 no.5:79-81

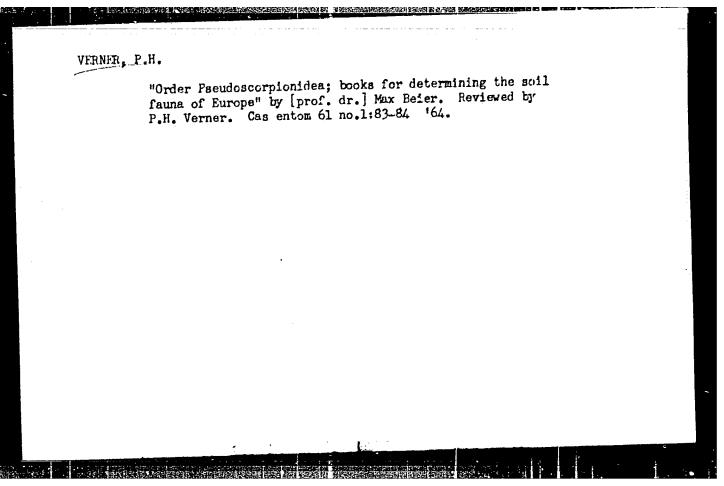
My '60.

(Ash disposal) (Furnaces)

VERNER, Petr H.; PULPAN, Jan

Hard cheese mites. Prum potravin 16 no.4:202-204 Ap '65.

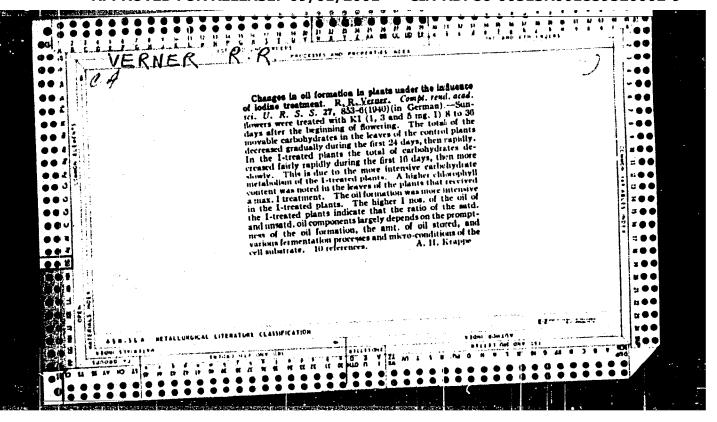
1. Central Research Institute of the Food Industry, Prague.
Submitted August 22, 1964.



PULPAN, Jan (Praha 2, Vinicna 7); HURKA, Karel, dr. (Praha, Vinicna 7); VERNER, Petr H., dr. (Praha 2, Vinicna 7)

Three ground-beetle species, new in Czechoslovakia: Nebria fuscipes Fuss, Deltomerus carpathicus (Mill.) and Amara pseudostremua Kult. (Coleoptera). Cas entem 59 no.2:124-130 162.

1. Tschechoslowakische Entomologische Gesellschaft und Lehrstuhl für Systematische Zoologie der Kerls-Universität, Praha.



VERNER, S. - Strojirenstvi - Vol. 5, no. 2, Feb. 1955.

Determining the optimal degree in a type series. p. 140.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

VERNER, S.

Tolerances for finishing castings. p.125. (Normalisace, Vol. 6, No. 6, June 1957, Praha, Czechoslovakia)

THE RESERVE OF THE PROPERTY OF

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

VERNER, S.

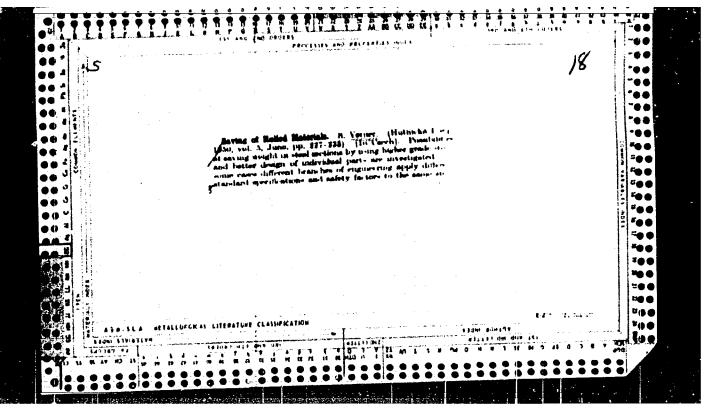
Reduction of overhead costs by standardization and consistent preparation of production, p. 16h, STROJIRENSKA VYROBA (Ministerstvo strojirenstvi) Praha, Vol. 3, No. 4, Apr. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 1955

VERNER, S.

"Application of Established Standards and Criteria for Estimating Preparedness of Productions", P. 628, (STROJIRENSTVI, Vol. 1, No. 8, Aug. 1954, Praha, Czechoslovakia)

80: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.



VERNER, T.B.; GONOBINCHELKO, V.M., inzh., nauchn.-tekhn.red.; BHEMANT, Å.I., ved.red.

[Continuous mills of hot and cold rolling; a bibliography] Nepreryvnye stany goriachei i kholodnoi prokatki; bibliograficheskii ukazatel'. Moskva, TsINCHM, 1963. 114 p.

(MIRA 17:8)

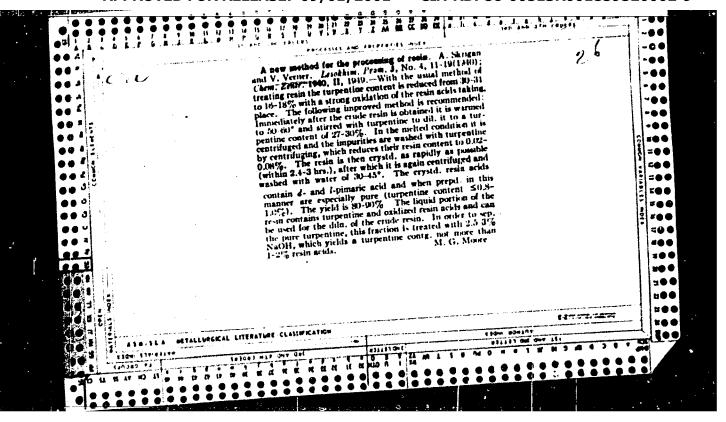
1. Moscow. TSentral'naya nauchno-tekhnicheskaya biblioteka chernoy metallurgii.

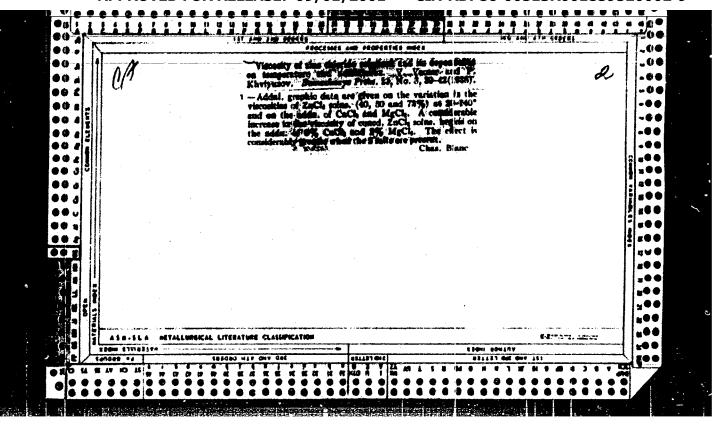
VERNER, V., starshiy inzh.; YUSUPOV, M., starshiy instruktor

The same of the sa

Precast slabs of tiles for walls and floors. Sel'. stroi. 15 no.4: 16-17 Ap '61. (MIRA 14:6)

l. Byuro tekhnicheskoy pomoshchi upravleniya stroitel'stva Ministerstva sovkhozov RSFSR. (Tile construction)





WERN'S, w. ...

Stature of internal friction pooks in interstitial solid solutions with face-centered cubic lattice. Fin. tver. tela 7 no.8:2318... (MFRA 18:9)

1. Moskovskiy institut stali i splavov.

L 4545-66 EWT(m)/EWP(w)/EPF(c)/EPF(n)-2/T/EWP(t)/EWF(z)/EWP(b)/EWA(c) LJP(c) ACCESSION NR: AP5019842 JD/EW/JC/CG UR/0181/65/007/008/2318/2326 AUTHOR: Verner, V. D. TITLE: On the nature of the peak internal friction in interstitial solid solutions with face-centered cubic lattice SOURCE: Fizika tverdogo tela, v. 7, no. 8, 1955, 2318-2326 TOPIC TAGS: nickel alloy, manganese alloy, chromium alloy, cobalt alloy, internal friction, metal diffusion, solid solution, radiation damage ABSTRACT: The author investigated the internal friction of alloys of nickel; manganese; chromium; carbon; nitrogen, and cobalt; with varying compositions. Wire samples 0.7 -- 0.8 mm in diameter were nitrided or carburized from the gas phase and quenched after homogenizing annealing in water. The internal friction was measured by a torsion pendulum method using an instrument of the RKF-MIS type. The dependence of the diffusion peak on the concentration of the solid solution, on the number of radiation defects, and on the grain size 1/2 Card

L 4545-66 ACCESSION NR: AP5019842

was investigated. An analysis of the experimental results shows that the nature of the relaxation mechanism which leads to an internalfriction peak in institual solid solutions with face-centered cubic lattice should be the same in alloys having different compositions. The relaxation is connected with the reorientation of the interstitial atom pairs located in 3-5 coordination spheres. A theoretical estimate yields for these spheres an energy of 0.4 -- 0.6 ev per pair of atoms. It is shown that the binding energy of the atom pairs can be determined from measurements of the internal friction. perimental value of the binding energy was found to be 0.2 -- 0.3 ev, which was in agreement with the theoretical estimate. The author The exthanks A. G. Khachaturyan for help and a discussion of the results. Orig. art. has: 5 figures, 19 formulas, and 4 tables.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)

SUBMITTED: 04Dec64

ENCL: 00

SUB CODE: SS, MM

NR REF SOV: -- 005

OTHER: 007

s/181/61/003/011/018/056 8125/8104

AUTHORS: Verner, V. D., Finkel'shteyn, B. N., and Shalimova, A. V.

TITLE: Study of behavior of nitrogen in Fe alloys having facecentered lattice by using the method of internal friction

PERIODICAL: Fizika tverdogo tela, v.3, no. 11, 1961, 3363-3366

TEXT: The authors investigated the internal friction of Fe + 30% Ni, Fe + 20% Ni + 9% Mn, Fe + 28% Mn alloys and of electrolytic iron as a function of temperature. Wire-type samples of 0.7 mm diameter were annealed before testing in moisture-laden hydrogen in order to remove carbon and nitrogen. K. M. Rozin and B. N. Finkel'shteyn (DAN SSSR, 91, no. 4, 811, 1953) discovered a carbon peak of internal friction in type 25-20 austenite steel. Ke-Ting-sui, Wang Chi-men (Scientia Sinica, 4, 501, 1955) found similar peaks in nickel and alleys with face-centered lattices. The internal friction was measured as a function of temperature by employing a vacuum-type torsion pendulum of type PAC-MMC (RXF-MIS). The samples investigated were nitrided to a depth of 0.20 - 0.25 mm. After tempering from the nitriding temperature, the surface layer consists of Card 1/4

5/161/61/003/011/018/056 Study of behavior of nitrogen in Fe alloys...B125/B104

the nitride phase (ℓ and γ') and of solid nitrogen solutions in martensite, the rest consists of austenite and ferrite. The interior of the sample consists of ferrite. The peak a of internal friction (Figs. 1 and 2) is caused by nitrogen found in the ferrite. The peak c is caused by martensite. Alloys of iron with nickel and manganese after nitriding showed a layer with the structure of austenite with nitrides. The interior of samples consisted of pure austenite. The temperature dependence of

internal friction showed a maximum at 260 - 280°C for all samples investigated. Raising the hardening temperature increases the peaks and annealing lowers them. According to tests, these peaks are caused by solid solution of nitrogen. The activation energy of the relaxation process caused by the peak of internal friction was determined by shift of the maximum on the temperature axis at variable vibration frequency and also by the method of K. Vert (Sb. "Sovremennyye fizioheskiye metody issledovaniya v metallovedenii." Metallurgizdat, atr. 265, M. 1958). Results agree within limits of error. The activation energy of iron agreed well with the activation energy for nitrogen diffusion in f -iron. The diffusion coefficient at peak temperature (523°K) was 0.928·10-15 cm²/sec,

S/181/61/003/011/018/056

Study of behavior of nitrogen in Fe alloys...B125/B104

at 950°C it is given as D = 1.26·10⁻⁸ cm²/sec. Peaks found by the authors are baused by diffusion of nitrogen atoms in face-centered lattices under the action of elastic stresses. There are 5 figures, 1 table, and 11 references: 7 Soviet-bloc and 4 non-Soviet-bloc. The three most recent references to English-language publications read as follows: J. L. Snoek. Physica, 8, 711, 1941.; C. Wert. Phys. Rev., 79, No. 4, 601, 1950.; J. D. Fast, M. V. Verripr. J. Iron and Steel Inst., 176, 24, 1954.

ASSOCIATION: Moskovskiy institut stali im. I. V. Stalina (Moscow Steel Institute imeni I. V. Stalin)

SUBMITTED: June 5, 1961

Fig. 1. Temperature dependence of internal friction of nitrided iron. After quenching from 700°C: (1) Heating, (3) cooling; after quenching from 700°C and cold treatment, (2) heating, (4) cooling; after a third quenching from 700°C; (5) heating.

Card 3/4 7

5/125/62/014/006/010/020 E193/E383

Verner, V.D. AUTHOR:

Internal friction due to diffusion of nitrogen atoms TITLE:

AND THE PROPERTY OF THE PARTY O

to the elastic-stresses field in the $\boldsymbol{\gamma}$ solid solution of

iron alloys

Fizika metallov i metallovedeniye, v. 14, no. 6, PERIODICAL: 1962, 880 - 889

The object of the present investigation was to explore the possibility of using internal-friction measurements for studying the diffusion of nitrogen in iron and iron alloys. chemical analysis of the experimental materials is given in Table 1. Specimens with various nitrogen contents were obtained from these materials by surface nitriding, followed by homogenizing annealing. Attempts were made to prevent losses of nitrogen during the latter treatment by using surface-diffusion barriers formed by oxidising nitrided steel specimens or by coating them with tin, nickel or glass. Although this expedient was fully effective in preventing losses of nitrogen, only in the case of alloys 5 and 6, coated with tin and homogenized at 700-750 Card 1/5